

# Heavy-Duty Gas Turbine Operating and Maintenance Considerations

GER-3620P (01/21)

**Diane Beagle**

**Brian Moran**

**Michael McDufford**

**Mardy Merine**

GE Power  
Atlanta, GA



# Heavy Duty Gas Turbine Operating And Maintenance

**National Electric Light Association**



## **Heavy Duty Gas Turbine Operating And Maintenance:**

Heavy Duty Gas Turbine Operating and Maintenance Considerations R. F. Hoeft, General Electric Co., Gas Turbine Division, 1993

Operation, Maintenance, and Repair of Land-Based Gas Turbines Hiyam Farhat, 2021-06-16

Operation Maintenance and Repair of Land Based Gas Turbines provides a toolkit for practitioners seeking to make technoeconomic decisions on life extension of power turbine equipment The work describes essential degradation modes affecting critical components and proven methods of restoration Sections discuss key elements of life extensions for aging units and components together with critical reviews of available methodologies Coverage includes advanced nondestructive testing methods essential for effective life extension programs including lessons learned from firsthand experience working with multiple machine designs classes and operating conditions The final sections cover a body of solutions intended to refocus ORM processes on overcoming the shortfalls caused by volatilities and system restructuring Reviews best practices for practitioners seeking to make decisions on gas turbine maintenance repair and operations Analyzes components and major sections in terms of functionality critical features residual properties and service caused damages Explains the applicability and limitations of special processes and advanced non destructive testing methods

Gas Turbine Combined Cycle Power Plants S. Can Gülen, 2019-12-06 This book covers the design analysis and optimization of the cleanest most efficient fossil fuel fired electric power generation technology at present and in the foreseeable future The book contains a wealth of first principles based calculation methods comprising key formulae charts rules of thumb and other tools developed by the author over the course of 25 years spent in the power generation industry It is focused exclusively on actual power plant systems and actual field and or rating data providing a comprehensive picture of the gas turbine combined cycle technology from performance and cost perspectives Material presented in this book is applicable for research and development studies in academia and government industry laboratories as well as practical day to day problems encountered in the industry including OEMs consulting engineers and plant operators

**Thermal Power Plant Performance Analysis** Gilberto Francisco Martha de Souza, 2012-01-04 This book presents reliability based tools used to define performance of complex systems and introduces the basic concepts of reliability maintainability and risk analysis aiming at their application as tools for power plant performance improvement

**ASME Technical Papers**, 2000

Power Generation Handbook : Selection, Applications, Operation, Maintenance Philip Kiameh, 2002-08-28 We've all lived through long hot summers with power shortages brownouts and blackouts But at last all the what to do and how to do it information you'll need to handle a full range of operation and maintenance tasks at your fingertips Written by a power industry expert Power Generation Handbook Selection Applications Operation Maintenance helps you to gain a thorough understanding of all components calculations and subsystems of the various types of gas turbines steam power plants co generation and combined cycle plants Divided into five sections Power Generation Handbook Selection Applications Operation Maintenance provides a thorough understanding

of co generation and combined cycle plants Each of the components such as compressors gas and steam turbines heat recovery steam generators condensers lubricating systems transformers and generators are covered in detail The selection considerations operation maintenance and economics of co generation plants and combined cycles as well as emission limits monitoring and governing systems will also be covered thoroughly This all in one resource gives you step by step guidance on how to maximize the efficiency reliability and longevity of your power generation plant Journal of Engineering for Gas Turbines and Power ,2006 **Power Generation Handbook 2/E** Philip Kiameh,2011-10-20 THE DEFINITIVE GUIDE TO POWER GENERATION FULLY REVISED Updated throughout to cover the latest technologies and applications Power Generation Handbook Second Edition focuses on the basics of power generation using gas turbine steam wind solar co generation and combined cycle power plants Other essential topics such as calculations efficient plant design emission limits monitoring and the economics of power generation are discussed in detail A real world case study illustrates the material presented in this authoritative resource Coverage includes All components and subsystems of the various types of gas turbine steam power co generation combined cycle wind turbine solar power and generator plants Advantages applications performance and economics of low emission high efficiency power plants Selection operation and maintenance of gas turbines steam turbines valves compressors governing systems combustors de aerators feedwater heaters transformers generators wind turbines and generators and solar power stations Monitoring and control of all power station environmental emissions Power station performance monitoring and performance enhancement options **Process Engineering Equipment Handbook** Claire Soares,2002 Texts Index **Power** ,1929 **Mechanical Engineering** ,1919 Engineering News and American Contract Journal ,1913 *Turbomachinery International Handbook* ,2001 *Question Box Revision from 1902 to 1909* National Electric Light Association,1911 *The Industrial Arts Index* ,1930 *Industrial Arts Index* ,1926 **Turbomachinery International** ,2003 Vols for 1977 include a section Turbomachinery world news called v 1 **Diesel and Gas Turbine Catalog** ,1963 Modern Power Systems ,1986 *Paper* ,2001

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